CATALOG NO. 76N

TOOLS OF DISTINCTION

each with industrial quality, guaranteed.

®

A DIVISION OF RADIAL LIP MACHINE, INC.

serving the hardware, professional craftsman, automotive and related markets

Norseman Drill and Tool
Division Offices and Manufacturing Facility
470 Kittson Street
P.O. Box 3272
St. Paul, Minnesota 55165
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CAUTION

ANY CUTTING TOOL MAY BREAK OR SHATTER UNDER IMPROPER USE. GOVERNMENT REGULATIONS REQUIRE USE OF SAFETY GLASSES AND OTHER APPROPRIATE SAFETY EQUIPMENT AT ALL TIMES IN THE VICINITY OF USE.

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AUTOMOTIVE DRILLS –
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PRICES ON REQUEST

TERMS:

2% 10 Days; Net 30 to rated firms.
Minimum billing charge, $15.00.
Orders of $200.00 or more net, shipped prepaid.
Less than standard packaging – Add 10%.
Returned goods – Norseman will not accept without prior approval and there will be a 10% rehandling charge.
Prices subject to change without notice.

GUARANTEED INDUSTRIAL QUALITY

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TYPE 100
GENERAL PURPOSE

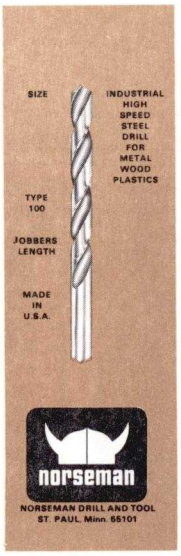
General Purpose — 118° Point, bright finish insures fast chip removal when drilling metal, wood & plastics.

JOBBERS' LENGTH
Industrial high speed steel drills, bright finish.

Each and every drill bearing the Norseman signature is a precise cutting tool, manufactured in St. Paul, Minn., U.S.A. to industrial drill standards and specifications.

ENVELOPE

PERMA–PAK



SKIN–PAK

Standard Envelope Package affords maximum protection for quantities — 6 or 12 pcs. per envelope.
1/64" thru 9/32"-12 drills per envelope.
19/64" thru 1/2"-6 drills per envelope.

Individual Perma-Pak; attractive and durable vinyl plastic sleeve enhance the saleability of all Norseman industrial quality tools. Colorful and practical the reuseable sleeve protects the drill and are hole punched for pegboard hooks.

Individual Skin-Pak; lots of eye and sales appeal on these individually skin packaged drills. Ideal for counter displays, island trays and pegboard hooks. Easy to handle, protects the drills and is more suitable to the self-service store. Cards are hole punched for pegboard hooks.

TYPE 100 — JOBBERS' LENGTH
FRACTIONAL SIZES

Diameter Inches	Env. Price Each	Length Overall Inches	Length of Twist Inches	Perma Pak Price Each	Skin-Pak Price Each
1/64	$ .68	3/4	3/16	$ –	$ –
1/32	.50	1-3/8	1/2	–	–
3/64	.40	1-3/4	3/4	–	–
1/16	.38	1-7/8	7/8	.48	.48
5/64	.38	2	1	.48	.48
3/32	.40	2-1/4	1- 1/4	.50	.50
7/64	.43	2-5/8	1- 1/2	.53	.53
1/8	.55	2-3/4	1- 5/8	.65	.65
9/64	.56	2-7/8	1- 3/4	.68	.68
5/32	.63	3-1/8	2	.75	.75
11/64	.67	3-1/4	2- 1/8	.79	.79
3/16	.79	3-1/2	2- 5/16	.91	.91
13/64	.92	3-5/8	2- 7/16	1.04	1.04
7/32	1.00	3-3/4	2- 1/2	1.14	1.14
15/64	1.09	3-7/8	2- 5/8	1.23	1.23
1/4	1.21	4	2- 3/4	1.35	1.35
17/64	1.56	4-1/8	2- 7/8	1.70	1.70
9/32	1.62	4-1/4	2-15/16	1.76	1.76
19/64	1.95	4-3/8	3- 1/16	2.13	2.13
5/16	1.98	4-1/2	3- 3/16	2.16	2.16
21/64	2.22	4-5/8	3- 5/16	2.40	2.40
11/32	2.50	4-3/4	3- 7/16	2.68	2.68
23/64	2.90	4-7/8	3- 1/2	3.10	3.10
3/8	2.91	5	3- 5/8	3.11	3.11
25/64	3.35	5-1/8	3- 3/4	3.55	3.55
13/32	3.38	5-1/4	3- 7/8	3.58	3.58
27/64	3.72	5-3/8	3-15/16	3.94	3.94
7/16	4.01	5-1/2	4- 1/16	4.23	4.23
29/64	4.67	5-5/8	4- 3/16	4.89	4.89
15/32	4.71	5-3/4	4- 5/16	4.93	4.93
31/64	5.05	5-7/8	4- 3/8	5.27	5.27
1/2	4.99	6	4- 1/2	5.21	5.21

TYPE 115: Same specifications and prices as above only with Black Surface Treatment. (Ferrous Oxide, wear resistant finish.)

WHEN ORDERING: State Diameter, Type No. & Type of Package.

GUARANTEED INDUSTRIAL QUALITY

norseman

TYPE 100

GENERAL PURPOSE

General Purpose – 118° Point, bright finish insures fast chip removal when drilling metal, wood and plastics.

JOBBERS' LENGTH

Industrial high speed steel drills, bright finish.

Each and every drill bearing the Norseman signature is a precise cutting tool, manufactured in St. Paul, Minn., U.S.A. to industrial drill standards and specifications.

TYPE 100 – JOBBERS' LENGTH
WIRE SIZES

Wire Gauge Number	Env. Price Each	Length Overall Inches	Length of Twist Inches
1	$1.21	3-7/8	2-5/8
2	1.21	3-7/8	2-5/8
3	1.16	3-3/4	2-1/2
4	1.21	3-3/4	2-1/2
5	1.21	3-3/4	2-1/2
6	1.21	3-3/4	2-1/2
7	.93	3-5/8	2-7/16
8	.93	3-5/8	2-7/16
9	1.04	3-5/8	2-7/16
10	.98	3-5/8	2-7/16
11	.98	3-1/2	2-5/16
12	1.04	3-1/2	2-5/16
13	.86	3-1/2	2-5/16
14	.90	3-3/8	2-3/16
15	.90	3-3/8	2-3/16
16	.86	3-3/8	2-3/16
17	.83	3-3/8	2-3/16
18	.75	3-1/4	2-1/8
19	.75	3-1/4	2-1/8
20	.75	3-1/4	2-1/8
21	.69	3-1/4	2-1/8
22	.69	3-1/8	2
23	.67	3-1/8	2
24	.67	3-1/8	2
25	.61	3	1-7/8
26	.63	3	1-7/8
27	.54	3	1-7/8
28	.58	2-7/8	1-3/4
29	.58	2-7/8	1-3/4
30	.58	2-3/4	1-5/8
31	.48	2-3/4	1-5/8
32	.48	2-3/4	1-5/8
33	.48	2-5/8	1-1/2
34	.48	2-5/8	1-1/2
35	.48	2-5/8	1-1/2
36	.47	2-1/2	1-7/16
37	.47	2-1/2	1-7/16
38	.47	2-1/2	1-7/16
39	.46	2-3/8	1-3/8
40	.46	2-3/8	1-3/8
41	$ .45	2-3/8	1- 3/8
42	.44	2-1/4	1- 1/4
43	.44	2-1/4	1- 1/4
44	.44	2-1/8	1- 1/8
45	.44	2-1/8	1- 1/8
46	.44	2-1/8	1- 1/8
47	.44	2	1
48	.44	2	1
49	.44	2	1
50	.44	2	1
51	.44	2	1
52	.44	1-7/8	7/8
53	.44	1-7/8	7/8
54	.40	1-7/8	7/8
55	.40	1-7/8	7/8
56	.40	1-3/4	3/4
57	.51	1-3/4	3/4
58	.58	1-5/8	11/16
59	.58	1-5/8	11/16
60	.51	1-5/8	11/16
61	.51	1-5/8	11/16
62	.51	1-1/2	5/8
63	.51	1-1/2	5/8
64	.51	1-1/2	5/8
65	.51	1-1/2	5/8
66	.51	1-3/8	1/2
67	.51	1-3/8	1/2
68	.51	1-3/8	1/2
69	.68	1-3/8	1/2
70	.68	1-1/4	3/8
71	.68	1-1/4	3/8
72	.68	1-1/8	5/16
73	.68	1-1/8	5/16
74	.68	1	1/4
75	.75	1	1/4
76	.75	7/8	3/16
77	.75	7/8	3/16
78	.75	7/8	3/16
79	.75	3/4	3/16
80	.75	3/4	3/16

TYPE 115: Same specifications and prices as above with Black Surface Treatment. (Ferrous Oxide, wear resistant finish.)

NOTE: Wire sizes No. 1 thru No. 60 available in Perma-Pak or Skin-Pak . . . add to the above prices as shown below.

No. 1 thru No. 17 add $.14
No. 18 thru No. 24 add $.12
No. 25 thru No. 30 add $.10
No. 31 thru No. 60 add $.09

Standard envelope package – 12 drills per envelope.

WHEN ORDERING: State Diameter, Type No. & Type of Package

TYPE 100 – JOBBERS' LENGTH
LETTER SIZES

Letter Size	Env. Price Each	Length Overall Inches	Length of Twist Inches
A	$1.28	3-7/8	2-5/8
B	1.28	4	2-3/4
C	1.21	4	2-3/4
D	1.21	4	2-3/4
E	1.21	4	2-3/4
F	1.39	4-1/8	2-7/8
G	1.45	4-1/8	2-7/8
H	1.51	4-1/8	2-7/8
I	1.51	4-1/8	2-7/8
J	1.80	4-1/8	2-7/8
K	1.80	4-1/4	2-15/16
L	2.09	4-1/4	2-15/16
M	2.21	4-3/8	3-1/16
N	2.21	4-3/8	3-1/16
O	2.21	4-1/2	3-3/16
P	2.33	4-5/8	3-5/16
Q	2.33	4-3/4	3-7/16
R	2.33	4-3/4	3-7/16
S	2.73	4-7/8	3-1/2
T	2.73	4-7/8	3-1/2
U	2.96	5	3-5/8
V	2.96	5	3-5/8
W	3.20	5-1/8	3-3/4
X	3.84	5-1/8	3-3/4
Y	4.08	5-1/4	3-7/8
Z	4.43	5-1/4	3-7/8

TYPE 115: Same specifications and prices as above only with Black Surface Treatment. (Ferrous Oxide, wear resistant finish.)

NOTE: Available in Perma-Pak or Skin-Pak . . . add $.20 to above prices. Standard envelope package – sizes A-L, 12 drills per envelope, M-Z, 6 drills per envelope.

WHEN ORDERING: State Diameter, Type No. & Type of Package.

GUARANTEED INDUSTRIAL QUALITY

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TYPE 190
HEAVY DUTY

Heavy duty — 135° Split point for accurate centering — fast penetration.

Black Surface treated for abrasion resistance and to facilitate rapid chip removal.

Jobbers' length — Heavy duty, Industrial high speed steel drills. Black Surface Treatment.

TYPE 190 — HEAVY DUTY — JOBBERS' LENGTH

FRACTIONAL SIZES

Diameter Inches	Env. Price Each	Length Overall Inches	Length of Twist-Inches
7/64	$ .59	2-5/8	1-1/2
1/8	.71	2-3/4	1-5/8
9/64	.72	2-7/8	1-3/4
5/32	.79	3-1/8	2
11/64	.83	3-1/4	2-1/8
3/16	.95	3-1/2	2-5/16
13/64	1.08	3-5/8	2-7/16
7/32	1.16	3-3/4	2-1/2
15/64	1.25	3-7/8	2-5/8
1/4	1.37	4	2-3/4
17/64	1.73	4-1/8	2-7/8
9/32	1.78	4-1/4	2-15/16
19/64	2.12	4-3/8	3-1/16
5/16	2.14	4-1/2	3-3/16
21/64	2.39	4-5/8	3-5/16
11/32	2.66	4-3/4	3-7/16
23/64	2.96	4-7/8	3-1/2
3/8	3.07	5	3-5/8
25/64	3.52	5-1/8	3-3/4
13/32	3.54	5-1/4	3-7/8
27/64	3.89	5-3/8	3-15/16
7/16	4.18	5-1/2	4-1/16
29/64	4.85	5-5/8	4-3/16
15/32	4.88	5-3/4	4-5/16
31/64	5.23	5-7/8	4-3/8
1/2	5.15	6	4-1/2

NOTE:
Standard Envelope Package only

7/64 thru 9/32 —12 drills/envelope

19/64 thru 1/2 — 6 drills/envelope

All wire sizes — 12 drills/envelope

Letter sizes A thru L 12 drills/envelope

Letter sizes M thru Z 6 drills/envelope

TYPE 190 — HEAVY DUTY — JOBBERS'LENGTH

LETTER SIZES

Letter Size	Env. Price Each	Length Overall Inches	Length of Twist Inches
A	$1.44	3-7/8	2-5/8
B	1.44	4	2-3/4
C	1.37	4	2-3/4
D	1.37	4	2-3/4
E	1.37	4	2-3/4
F	1.56	4-1/8	2-7/8
G	1.62	4-1/8	2-7/8
H	1.68	4-1/8	2-7/8
I	1.68	4-1/8	2-7/8
J	1.97	4-1/8	2-7/8
K	1.97	4-1/4	2-15/16
L	2.26	4-1/4	2-15/16
M	2.39	4-3/8	3-1/16
N	2.39	4-3/8	3-1/16
O	2.39	4-1/2	3-3/16
P	2.49	4-5/8	3-5/16
Q	2.49	4-3/4	3-7/16
R	2.49	4-3/4	3-7/16
S	2.90	4-7/8	3-1/2
T	2.90	4-7/8	3-1/2
U	3.14	5	3-5/8
V	3.14	5	3-5/8
W	3.37	5-1/8	3-3/4
X	3.96	5-1/8	3-3/4
Y	4.25	5-1/4	3-7/8
Z	4.59	5-1/4	3-7/8

TYPE 190 — HEAVY DUTY — JOBBERS' LENGTH

WIRE SIZES

Wire Gauge No.	Env. Price Each	Length Overall Inches	Length of Twist Inches
1	$1.45	3-7/8	2-5/8
2	1.37	3-7/8	2-5/8
3	1.22	3-3/4	2-1/2
4	1.37	3-3/4	2-1/2
5	1.37	3-3/4	2-1/2
6	1.37	3-3/4	2-1/2
7	1.09	3-5/8	2-7/16
8	1.11	3-5/8	2-7/16
9	1.20	3-5/8	2-7/16
10	1.14	3-5/8	2-7/16
11	1.14	3-1/2	2-5/16
12	1.20	3-1/2	2-5/16
13	1.02	3-1/2	2-5/16
14	1.06	3-3/8	2-3/16
15	1.06	3-3/8	2-3/16
16	1.02	3-3/8	2-3/16
17	.99	3-3/8	2-3/16
18	.91	3-1/4	2-1/8
19	.91	3-1/4	2-1/8
20	.91	3-1/4	2-1/8

Wire Gauge No.	Env. Price Each	Length Overall Inches	Length of Twist Inches
21	$ .85	3-1/4	2-1/8
22	.85	3-1/8	2
23	.83	3-1/8	2
24	.83	3-1/8	2
25	.77	3	1-7/8
26	.79	3	1-7/8
27	.75	3	1-7/8
28	.74	2-7/8	1-3/4
29	.74	2-7/8	1-3/4
30	.74	2-3/4	1-5/8
31	.64	2-3/4	1-5/8
32	.64	2-3/4	1-5/8
33	.64	2-5/8	1-1/2
34	.72	2-5/8	1-1/2
35	.72	2-5/8	1-1/2
36	.63	2-1/2	1-7/16
37	.63	2-1/2	1-7/16
38	.63	2-1/2	1-7/16
39	.62	2-3/8	1-3/8
40	.62	2-3/8	1-3/8

Wire Gauge No.	Env. Price Each	Length Overall Inches	Length of Twist Inches
41	$ .61	2-3/8	1-3/8
42	.60	2-1/4	1-1/4
43	.60	2-1/4	1-1/4
44	.60	2-1/8	1-1/8
45	.60	2-1/8	1-1/8
46	.60	2-1/8	1-1/8
47	.60	2	1
48	.60	2	1
49	.60	2	1
50	.60	2	1
51	.60	2	1
52	.57	1-7/8	7/8

GUARANTEED INDUSTRIAL QUALITY

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TYPE 170
GENERAL PURPOSE

General Purpose – 118° Point,
Black Surface treated for abrasion resistance and to facilitate rapid chip removal.

Equivalent in every way to general purpose jobbers drills Type 115 but conform to metric diminsions.

MILLIMETER SIZE TYPE 170

Diam. mm.	List Price Each	Dec. Equiv. Inches	Overall Length Inches	Overall Length mm	Flute Length mm
0.35	$0.95	.0138	3/4	19	3
0.40	.82	.0158	7/8	22	5
0.45	.82	.0177	7/8	22	5
0.50	.82	.0197	7/8	22	5
0.55	.82	.0217	1	25	6
0.60	.82	.0236	1 1/8	29	8
0.65	.82	.0256	1 1/4	32	10
0.70	.74	.0276	1 1/4	32	10
0.75	.66	.0295	1 3/8	35	13
0.80	.62	.0315	1 3/8	35	13
0.85	.62	.0335	1 1/2	38	16
0.90	.62	.0354	1 1/2	38	16
0.95	.62	.0374	1 1/2	38	16
1.00	.62	.0394	1 5/8	41	18
1.05	.62	.0413	1 5/8	41	18
1.10	.62	.0433	1 3/4	44	19
1.15	.62	.0453	1 3/4	44	19
1.20	.62	.0472	1 7/8	48	22
1.25	.62	.0492	1 7/8	48	22
1.30	.62	.0512	1 7/8	48	22
1.35	.62	.0531	1 7/8	48	22
1.40	.62	.0551	1 7/8	48	22
1.45	.62	.0571	1 7/8	48	22
1.50	.62	.0591	1 7/8	48	22
1.55	.62	.0610	1 7/8	48	22
1.60	.62	.0630	1 7/8	48	22
1.65	.62	.0650	2	51	25
1.70	.62	.0669	2	51	25
1.75	.62	.0689	2	51	25
1.80	.62	.0709	2	51	25
1.85	.62	.0728	2	51	25
1.90	.62	.0748	2	51	25
1.95	.62	.0768	2	51	25
2.00	.62	.0787	2 1/8	54	29
2.05	.62	.0807	2 1/8	54	29
2.10	.62	.0827	2 1/8	54	29
2.15	.62	.0846	2 1/8	54	29
2.20	.62	.0866	2 1/4	57	32
2.25	.62	.0886	2 1/4	57	32
2.30	.62	.0906	2 1/4	57	32
2.35	.62	.0925	2 1/4	57	32
2.40	.62	.0945	2 3/8	60	35
2.45	.62	.0965	2 3/8	60	35
2.50	.62	.0984	2 3/8	60	35
2.60	$0.62	.1024	2 1/2	64	37
2.70	.62	.1063	2 1/2	64	37
2.80	.62	.1102	2 5/8	67	38
2.90	.62	.1142	2 3/4	70	41
3.00	.62	.1181	2 3/4	70	41
3.10	.62	.1220	2 3/4	70	41
3.20	.62	.1260	2 3/4	70	41
3.30	.62	.1299	2 7/8	73	45
3.40	.62	.1339	2 7/8	73	45
3.50	.62	.1378	2 7/8	73	45
3.60	.68	.1417	3	76	48
3.70	.68	.1457	3	76	48
3.80	.70	.1496	3 1/8	79	51
3.90	.70	.1535	3 1/8	79	51
4.00	.73	.1575	3 1/4	83	54
4.10	.77	.1614	3 1/4	83	54
4.20	.77	.1654	3 1/4	83	54
4.30	.77	.1693	3 1/4	83	54
4.40	.91	.1732	3 3/8	86	56
4.50	.91	.1772	3 3/8	86	56
4.60	.91	.1811	3 3/4	86	56
4.70	.91	.1850	3 1/2	89	59
4.80	.95	.1890	3 1/2	89	59
4.90	1.00	.1929	3 5/8	92	62
5.00	1.00	.1968	3 5/8	92	62
5.10	1.00	.2008	3 5/8	92	62
5.20	1.16	.2047	3 3/4	95	64
5.30	1.16	.2087	3 3/4	95	64
5.40	1.16	.2126	3 3/4	95	64
5.50	1.16	.2165	3 3/4	95	64
5.60	1.27	.2205	3 7/8	98	67
5.70	1.27	.2244	3 7/8	98	67
5.80	1.41	.2283	3 7/8	98	67
5.90	1.41	.2323	3 7/8	98	67
6.00	1.41	.2362	4	102	70
6.10	1.41	.2402	4	102	70
6.20	1.41	.2441	4	102	70
6.30	1.41	.2480	4	102	70
6.40	1.53	.2520	4 1/8	105	73
6.50	1.53	.2559	4 1/8	105	73
6.60	1.69	.2598	4 1/8	105	73
6.70	1.69	.2638	4 1/8	105	73
6.80	1.69	.2677	4 1/8	105	73
6.90	1.69	.2717	4 1/8	105	73
7.00	$1.79	.2756	4 1/8	105	73
7.10	1.95	.2795	4 1/4	108	75
7.20	1.95	.2835	4 1/4	108	75
7.30	1.95	.2874	4 1/4	108	75
7.40	2.09	.2913	4 3/8	111	78
7.50	2.09	.2953	4 3/8	111	78
7.60	2.09	.2992	4 3/8	111	78
7.70	2.09	.3031	4 1/2	114	81
7.80	2.09	.3071	4 1/2	114	81
7.90	2.09	.3110	4 1/2	114	81
8.00	2.09	.3150	4 1/2	114	81
8.10	2.39	.3189	4 5/8	117	84
8.20	2.39	.3228	4 5/8	117	84
8.30	2.39	.3268	4 5/8	117	84
8.40	2.39	.3307	4 3/4	121	87
8.50	2.39	.3346	4 3/4	121	87
8.60	2.39	.3386	4 3/4	121	87
8.70	2.39	.3425	4 3/4	121	87
8.80	2.80	.3465	4 7/8	124	89
8.90	3.20	.3504	4 7/8	124	89
9.00	3.20	.3543	4 7/8	124	89
9.10	3.20	.3583	4 7/8	124	89
9.20	3.20	.3622	5	127	92
9.30	3.20	.3661	5	127	92
9.40	3.20	.3701	5	127	92
9.50	3.20	.3740	5	127	92
9.60	3.48	.3780	5 1/8	130	95
9.70	3.48	.3819	5 1/8	130	95
9.80	3.48	.3858	5 1/8	130	95
9.90	3.48	.3898	5 1/8	130	95
10.00	4.18	.3937	5 1/8	130	95
10.20	4.18	.4016	5 1/4	133	98
10.30	4.18	.4058	5 1/4	133	98
10.50	4.18	.4134	5 3/8	137	100
10.80	4.18	.4252	5 1/2	140	103
11.00	4.18	.4331	5 1/2	140	103
11.20	4.47	.4409	5 5/8	143	106
11.50	4.47	.4528	5 5/8	143	106
11.80	4.75	.4646	5 3/4	146	110
12.00	4.99	.4724	5 7/8	150	111
12.20	4.99	.4803	5 7/8	150	111
12.50	4.99	.4921	6	152	114
13.00	7.67	.5118	6	152	114

Standard Envelope Package Only. 0.35 to 7.30 packed 10 to envelope.
7.40 to 13.00 packed 5 to envelope.

GUARANTEED INDUSTRIAL QUALITY

REDUCED SHANK

1/4", 3/8" and 1/2" Shank Drills, Industrial High Speed Steel

TYPE 120

General Purpose
1/4" Shank – Industrial high speed steel
118° Point – Surface Treated Flutes Only

TYPE 120 – 1/4" SHANK
GENERAL PURPOSE, Reduced Length

Diameter Inches	Env. Price Each	Length Overall Inches	Length of Twist Inches	Skin Pak Price Each	Perma-Pak Price Each
17/64	$1.74	3- 1/2	1- 7/8	$1.94	$1.94
9/32	1.74	3-19/32	1-31/32	1.94	1.94
19/64	2.06	3-23/32	2- 1/16	2.26	2.26
5/16	2.06	3-27/32	2- 3/16	2.26	2.26
21/64	2.38	3-15/16	2- 9/32	2.58	2.58
11/32	2.38	4- 1/32	2-11/32	2.58	2.58
23/64	2.80	4- 5/32	2-15/32	3.00	3.00
3/8	2.80	4- 1/4	2- 9/16	3.00	3.00
25/64	3.28	4-11/32	2- 5/8	3.48	3.48
13/32	3.28	4-15/32	2- 3/4	3.48	3.48
27/64	3.71	4- 9/16	2-27/32	3.91	3.91
7/16	3.71	4-11/16	2-15/16	3.91	3.91
29/64	4.24	4-25/32	3- 1/32	4.44	4.44
15/32	4.24	4- 7/8	3- 1/8	4.44	4.44
31/64	4.71	5	3- 7/32	4.91	4.91
1/2	4.71	5- 3/32	3- 5/16	4.91	4.91

STD. ENV. PACKAGE:
17/64 thru 9/32-12 drills/ envelope
19/64 thru 1/2-6 drills/ envelope

TYPE 125

Heavy Duty Thrust Drills
1/4" Shank – Industrial high speed steel
135° Split Point – Black Surface Treatment

TYPE 125 – 1/4" SHANK
HEAVY DUTY THRUST DRILLS

Diameter Inches	Env. Price Each	Length Overall Inches	Length of Twist Inches	Skin Pak Price Each	Perma-Pak Price Each
17/64	$1.69	2- 5/8	1- 7/16	$1.89	$1.89
9/32	1.69	2-11/16	1- 1/2	1.89	1.89
19/64	2.01	2- 3/4	1- 9/16	2.21	2.21
5/16	2.01	2-13/16	1- 5/8	2.21	2.21
21/64	2.33	2-15/16	1-11/16	2.53	2.53
11/32	2.33	3	1-11/16	2.53	2.53
23/64	2.75	3- 1/16	1- 3/4	2.95	2.95
3/8	2.75	3- 1/8	1-13/16	2.95	2.95
25/64	3.23	3- 1/4	1- 7/8	3.43	3.43
13/32	3.23	3- 5/16	1-15/16	3.43	3.43
27/64	3.66	3- 3/8	2	3.86	3.86
7/16	3.66	3- 7/16	2- 1/16	3.86	3.86
29/64	4.19	3- 9/16	2- 1/8	4.39	4.39
15/32	4.19	3- 5/8	2- 1/8	4.39	4.39
31/64	4.66	3-11/16	2- 3/16	4.86	4.86
1/2	4.66	3- 3/4	2- 1/4	4.86	4.86

STD. ENV. PACKAGE: 17/64 thru 9/32-12 drills/ envelope
19/64 thru 1/2-6 drills/envelope

TYPE 128

General Purpose
3/8" Shank – Industrial high speed steel
118° Point – Surface Treated Flutes Over 1/2" Diameter

TYPE 128 – 3/8" SHANK
GENERAL PURPOSE

Diameter Inches	Env. Price Each	Length Overall Inches	Plastic Tube Price Each	Perma/ Sk. Pak Price Each
7/16	$4.18	5-1/2	$ 4.38	$ 4.38
15/32	4.71	5-3/4	4.91	4.91
1/2	5.30	6	5.50	5.50
17/32	–	6	10.45	10.45
9/16	–	6	11.08	11.08
19/32	–	6	11.77	11.77
5/8	–	6	12.28	12.28

STD. ENV. PACKAGE:
7/16 thru 1/2-6 drills/envelope

TYPE 130

Silver and Deming
1/2" Shank – Industrial high speed steel
118° Point – Surface Treated Flutes Only

TYPE 130 – 1/2" SHANK
SILVER AND DEMING

Diameter Inches	Length Overall Inches	Plastic Tube Price Each	Perma/ Sk. Pak Price Each
33/64	6	$ 9.32	$ 9.32
17/32	6	9.32	9.32
35/64	6	9.95	9.95
9/16	6	9.95	9.95
37/64	6	10.67	10.67
19/32	6	10.67	10.67
39/64	6	11.18	11.18
5/8	6	11.18	11.18
41/64	6	11.82	11.82
21/32	6	11.82	11.82
43/64	6	12.38	12.38
11/16	6	12.38	12.38
45/64	6	12.98	12.98
23/32	6	12.98	12.98
47/64	6	13.58	13.58
3/4	6	13.58	13.58
49/64	6	14.28	14.28
25/32	6	14.28	14.28
51/64	6	14.88	14.88
13/16	6	14.88	14.88
53/64	6	15.47	15.47
27/32	6	15.47	15.47
55/64	6	16.08	16.08
7/8	6	16.08	16.08
57/64	6	16.72	16.72
29/32	6	16.72	16.72
59/64	6	17.93	17.93
15/16	6	17.93	17.93
61/64	6	19.02	19.02
31/32	6	19.02	19.02
63/64	6	20.98	20.98
1	6	20.98	20.98
1- 1/16	6	25.93	25.93
1- 1/8	6	28.40	28.40
1- 5/32	6	29.62	29.62
1- 3/16	6	30.25	30.25
1- 1/4	6	33.33	33.33

GUARANTEED INDUSTRIAL QUALITY

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TYPE 135
THRUST DRILLS

Thrust Drills — 135° Split Point
For accurate centering — faster penetration.
A sturdy drill for use in portable power drilling — Black Surface Treatment, heavy duty construction.

Short length — 135° Split Point
Industrial high speed steel drills

TYPE 135 — SHORT LENGTH HEAVY DUTY THRUST DRILLS
FRACTIONAL SIZES

Diam. Inches	Env. Price Each	Length Overall Inches	Length of Twist Inches
1/16	$ .43	1- 5/8	5/8
5/64	.43	1-11/16	11/16
3/32	.46	1- 3/4	3/4
7/64	.46	1-13/16	13/16
1/8	.54	1- 7/8	7/8
9/64	.60	1-15/16	15/16
5/32	.68	2- 3/16	1
11/64	.72	2- 1/8	1- 1/16
3/16	.87	2- 3/16	1- 1/8
13/64	.93	2- 1/4	1- 3/16
7/32	1.08	2- 3/8	1- 1/4
15/64	1.18	2- 7/16	1- 5/16
1/4	1.21	2- 1/2	1- 3/8
17/64	1.51	2- 5/8	1- 7/16
9/32	1.61	2-11/16	1- 1/2
19/64	1.74	2- 3/4	1- 9/16
5/16	1.83	2-13/16	1- 5/8
21/64	2.01	2-15/16	1-11/16
11/32	2.31	3	1-11/16
23/64	2.65	3- 1/16	1- 3/4
3/8	2.80	3- 1/8	1-13/16
25/64	3.10	3- 1/4	1- 7/8
13/32	3.25	3- 5/16	1-15/16
27/64	3.65	3- 3/8	2
7/16	3.86	3- 7/16	2- 1/16
29/64	4.29	3- 9/16	2- 1/8
15/32	4.71	3- 5/8	2- 1/8
31/64	4.96	3-11/16	2- 3/16
1/2	4.92	3- 3/4	2- 1/4

NOTE:
Envelope package only:
1/16 thru 9/32 - 12 drills/envelope
19/64 thru 1/2 - 6 drills/envelope

TYPE 135–SHORT LENGTH HEAVY DUTY THRUST DRILLS
WIRE SIZES

Wire Gauge Number	Env. Price Each	Length Overall Inches	Length of Twist Inches
1	$1.21	2- 7/16	1- 5/16
2	1.21	2- 7/16	1- 5/16
3	1.11	2- 3/8	1- 1/4
4	1.11	2- 3/8	1- 1/4
5	1.11	2- 3/8	1- 1/4
6	1.11	2- 3/8	1- 1/4
7	.93	2- 1/4	1- 3/16
8	.93	2- 1/4	1- 3/16
9	.93	2- 1/4	1- 3/16
10	.93	2- 1/4	1- 3/16
11	.93	2- 1/4	1- 3/16
12	.93	2- 1/4	1- 3/16
13	.87	2- 3/16	1- 1/8
14	.87	2- 3/16	1- 1/8
15	.87	2- 3/16	1- 1/8
16	.87	2- 3/16	1- 1/8
17	.87	2- 3/16	1- 1/8
18	.72	2- 1/8	1- 1/16
19	.72	2- 1/8	1- 1/16
20	.72	2- 1/8	1- 1/16
21	.71	2- 1/8	1- 1/16
22	.71	2- 1/8	1- 1/16
23	.71	2- 1/16	1
24	.71	2- 1/16	1
25	.71	2- 1/16	1
26	.71	2- 1/16	1
27	.71	2- 1/16	1
28	.60	1-15/16	15/16
29	.60	1-15/16	15/16
30	.54	1-15/16	15/16

Wire Gauge Number	Env. Price Each	Length Overall Inches	Length of Twist Inches
31	$ .49	1- 7/8	7/8
32	.49	1- 7/8	7/8
33	.49	1- 7/8	7/8
34	.49	1- 7/8	7/8
35	.49	1- 7/8	7/8
36	.49	1-13/16	13/16
37	.49	1-13/16	13/16
38	.49	1-13/16	13/16
39	.49	1-13/16	13/16
40	.45	1-13/16	13/16
41	.47	1-13/16	13/16
42	.45	1- 3/4	3/4
43	.45	1- 3/4	3/4
44	.45	1- 3/4	3/4
45	.45	1- 3/4	3/4
46	.45	1- 3/4	3/4
47	.45	1- 3/4	3/4
48	.45	1-11/16	11/16
49	.45	1-11/16	11/16
50	.45	1-11/16	11/16
51	.45	1-11/16	11/16
52	.45	1-11/16	11/16
53	.45	1- 5/8	5/8
54	.42	1- 5/8	5/8
55	.42	1- 5/8	5/8
56	.42	1- 3/8	1/2
57	.51	1- 3/8	1/2
58	.51	1- 3/8	1/2
59	.51	1- 3/8	1/2
60	.51	1- 3/8	1/2

NOTE: Envelope package only:
All wire sizes — 12 drills/envelope

GUARANTEED INDUSTRIAL QUALITY

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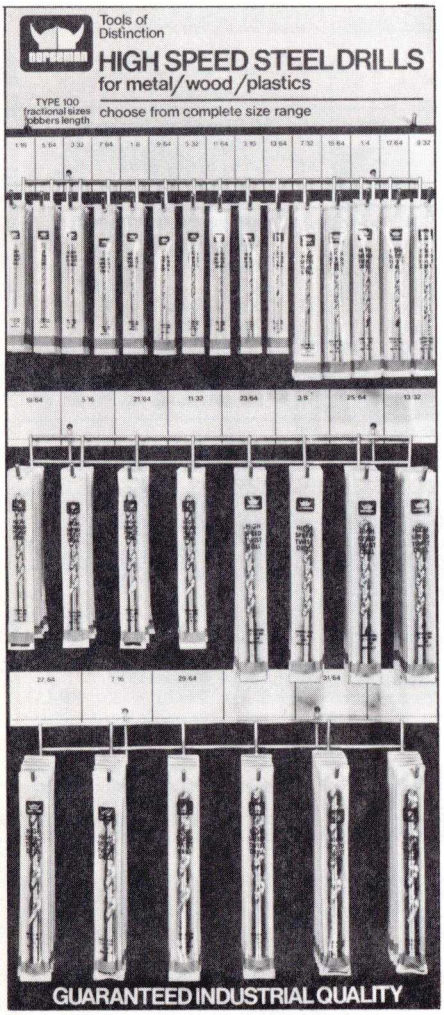
Drill Display Merchandisers



Colorful, Eye Catching Display Stimulates Drill Sales.

Colorful masonite display boards designed to promote and sell drills. Prominently displays all sizes of twist drills and masonry drills within a specified category on specially engineered brackets. Display merchandiser can easily be attached to pegboard or wall. Space is provided for the dealer to price each individual drill in soft pencil or crayon.

Fractional Size Drill Assortment – TYPE 912
Contains 185 jobber length fractional size twist drills ranging in sizes from 1/16 to 1/2 by 64ths, the quantity of each based on popularity of sales. Includes 18 each of the 3/32, 1/8 and 1/4 fast selling sizes, 12 each of the 1/16, 5/32, 11/64, 3/16, 7/32 popular size, 6 each of the 5/64, 7/64, 9/64, 13/64, 15/64, 9/32, 5/16 and 11/32, 3 each of the 17/64, 3/8, 13/32, 7/16, 1/2 and 1 each of 19/64, 21/64, 23/64, 25/64, 27/64, 29/64, 15/32 and 31/64. A complete drill stock of the fractional sizes.
ASSORTMENT DF1–185 Jobber length drills complete with drill merchandiser.
List Price. $248.90

Wire Size Drill Assortment – TYPE 912
Contains 343 high speed wire gauge number drills. Includes 5 each of all sizes from 1 to 17 inclusive and 6 each of all sizes from 18 to 60 inclusive.
ASSORTMENT DW2–Contains 343 jobber length high speed wire gauge number drills complete with display merchandiser.
List Price. $266.32

Letter Size Drill Assortment – TYPE 912
100 high speed jobbers length letter size drills including 4 each of all sizes from A to V inclusive, and 3 each of all sizes from W to Z inclusive.
ASSORTMENT DL3–Contains 100 jobber length high speed letter size drills complete with display merchandiser.
List Price. $245.61

1/4" Shank Drill Assortment – TYPE 912
Contains 42 drills, 8 popular sizes. Three each of 9/32, 11/32, 13/32, 7/16, 15/32, 1/2. Six each of the fastest selling 5/16, and 3/8 plus three each of 4 piece 1/4" shank drill sets in plastic pouches. ASSORTMENT DS6
List Price. $145.61

1/2" Shank (Silver Deming) Drill Assortment – TYPE 912
Contains 1 each of the 8 popular sizes 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1".
ASSORTMENT DD5–Contains 8 drills complete with display merchandiser.
List Price. $124.96

Masonry Drill Assortment – TYPE 912
Three each of 6 popular sized, fast selling masonry drills 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 plus three each of 4 piece masonry drill sets in plastic pouches. These drill assortments contain 18 drills and 3 sets, including display merchandiser.
ASSORTMENT DM4R–is furnished with Type 225 regular spiral masonry drills.
ASSORTMENT DM4F–is furnished with Type 215 fast spiral masonry drills.
List Price. . . . . $ 81.71

WHEN ORDERING: STATE ASSORTMENT AND TYPE NUMBERS.

All items packaged individually in attractive, durable Perma-Pak plastic sleeves for added sales appeal. These reuseable sleeves protect the drills and are hole punched.

GUARANTEED INDUSTRIAL QUALITY

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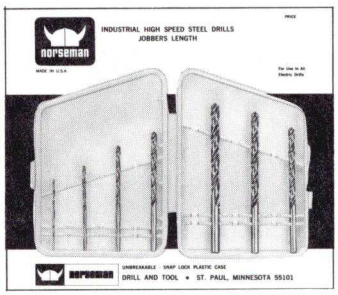
INDUSTRIAL HIGH SPEED STEEL DRILL SETS

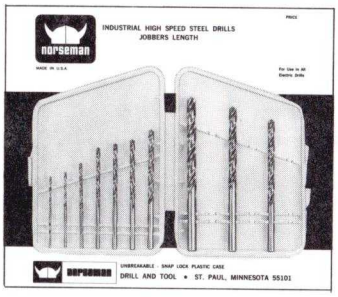
in unbreakable, snap-close plastic case, attractively skin packaged for pegboard or shelf display

TYPE 905 – JOBBERS' LENGTH – 1/4" SHANK DRILLS



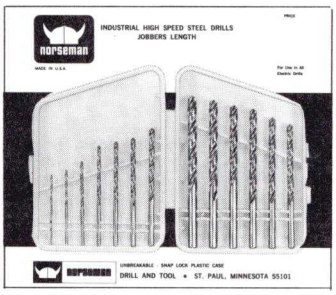
7 Piece Set Jobbers' Drills. The 7 sizes are 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, and 1/4". Plastic case accommodates 6 additional size drills.

Set No.	Price
PL-7	**$5.70**



10 Piece Set Jobbers' Drills. The 10 sizes are 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, and 1/4". Plastic case accommodates 3 additional size drills.

Set No.	Price
PL-10	**$7.07**



13 Piece Set Jobbers' Drills. The 13 sizes are 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16, 13/64, 7/32, 15/64 and 1/4".

Set No.	Price
PL-13	**$9.54**

14 Piece Set Jobbers' & 1/4 Shank Drills. The sizes are 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2. Sizes 5/16" and larger have 1/4" shanks.

Set No.	Price
PL-14	**$20.35**

TYPE 904 – REUSEABLE PLASTIC POUCH

15 Piece Set Jobbers' Drills. The 15 sizes are 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32 and 1/2". Sizes 9/32 and larger have 1/4" shanks.

Set No.	Price
D 15 P	**$32.40**

TYPE 120-1/4" Shank Drills, 4 Piece Set in re-useable snap-close Pouch. Set contains one each: 5/16, 3/8, 7/16 and 1/2" drills.

Set No.	Price
DC-4	**$14.15**

TYPE 120-1/4" Shank Drills, 5 Piece set in re-useable snap-close Pouch. Set contains one each: 1/4, 5/16, 3/8, 7/16, & 1/2" drills.

Set No.	Price
DC-5	**$15.21**

GUARANTEED INDUSTRIAL QUALITY

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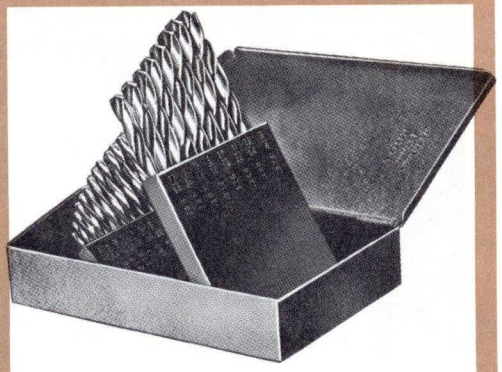
INDUSTRIAL HIGH SPEED STEEL
DRILL SETS

– JOBBERS' LENGTH –

TYPE 920 GENERAL PURPOSE	TYPE 921 HEAVY DUTY
10 Piece Drill Set Fractional sizes 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. SET J-10 ..... List Price Each ..... $ 8.24	SET A-10 ..... List Price Each ..... $ 9.36
11 Piece Drill Set Fractional sizes 1/16 to 3/8 by 32nds, jobbers' length, straight shank. SET J-11 ..... List Price Each $17.68	SET A-11 ..... List Price Each $19.12
13 Piece Drill Set Fractional sizes 1/16 to 1/4 by 64ths, jobbers' length, straight shank. SET J-13 ..... List Price Each $10.01	SET A-13 ..... List Price Each $12.52
15 Piece Drill Set Fractional sizes 1/16 to 1/2 by 32nds, jobbers' length, straight shank. SET J-15 ..... List Price Each $32.86	SET A-15 ..... List Price Each $36.82
20 Piece Drill Set Wire Gauge sizes No. 61 to 80, jobbers' length, straight shank. SET J-20 ..... List Price Each $16.32	SET A-20 – Not Available
21 Piece Drill Set Fractional sizes 1/16 to 3/8 by 64ths, jobbers' length, straight shank. SET J-21 ..... List Price Each $30.36	SET A-21 ..... List Price Each $33.17
26 Piece Drill Set Letter sizes A thru Z, jobbers' length, straight shank. SET J-26 ..... List Price Each $59.78	SET A-26 ..... List Price Each $68.53
29 Piece Drill Set Fractional sizes 1/16 to 1/2 by 64ths, jobbers' length, straight shank. SET J-29 ..... List Price Each $60.68	SET A-29 ..... List Price Each $69.12
60 Piece Drill Set Wire Gauge sizes No. 1 thru 60, jobbers' length, straight shank. SET J-60 ..... List Price Each $41.97	SET A-60 ..... List Price Each $51.75

TYPE 922
THRUST DRILLS, SHORT LENGTH



10 Piece Set
Fractional sizes 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.
SET T-10 ..... List Price Each ..... $ 9.90

11 Piece Set
Fractional sizes 1/16 to 3/8 by 32nds.
SET T-11 ..... List Price Each $20.24

13 Piece Set
Fractional sizes 1/16 to 1/4 by 64ths.
SET T-13 ..... List Price Each $12.73

21 Piece Set
Fractional sizes 1/16 to 3/8 by 64ths.
SET T-21 ..... List Price Each $32.47

29 Piece Set
Fractional sizes 1/16 to 1/2 by 64ths.
SET T-29 ..... List Price Each $67.35

60 Piece Set
Wire Gauge sizes 1 thru 60.
SET T-60 ..... List Price Each $46.83

TYPE 923 – 1/4" SHANK AND TYPE 100 – JOBBERS' LENGTH

11 Piece Drill Set Fractional sizes 1/16 to 3/8 by 32nds One each 1/16 to 1/4 straight shank jobber drills, plus one each 9/32 to 3/8, 1/4" reduced shank drills. SET Q-11 ..... List Price Each $17.44	21 Piece Drill Set Fractional sizes 1/16 to 3/8 by 64ths. One each 1/16 to 1/4 straight shank jobber drills, plus one each 17/64 to 3/8, 1/4" reduced shank drills. SET Q-21 ..... List Price Each $30.26
15 Piece Drill Set Fractional sizes 1/16 to 1/2 by 32nds. One each 1/16 to 1/4 straight shank jobber drills, plus one each 9/32 to 1/2, 1/4" reduced shank drills. SET Q-15 ..... List Price Each $33.23	29 Piece Drill Set Fractional sizes 1/16 to 1/2 by 64ths. One each 1/16 to 1/4 straight shank jobber drills, plus one each 17/64 to 1/2, 1/4" reduced shank drills. SET Q-29 ..... List Price Each $63.28

11 Piece Drill Set Millimeter sizes 1.00mm to 6.00mm in increments of 0.5mm. SET M-11 ..... List Price Each $12.57	25 Piece Drill Set Millimeter sizes 1.00mm to 13.00mm in increments of 0.5mm. SET M-25 ..... List Price Each $70.33

Price includes Metal Index

GUARANTEED INDUSTRIAL QUALITY

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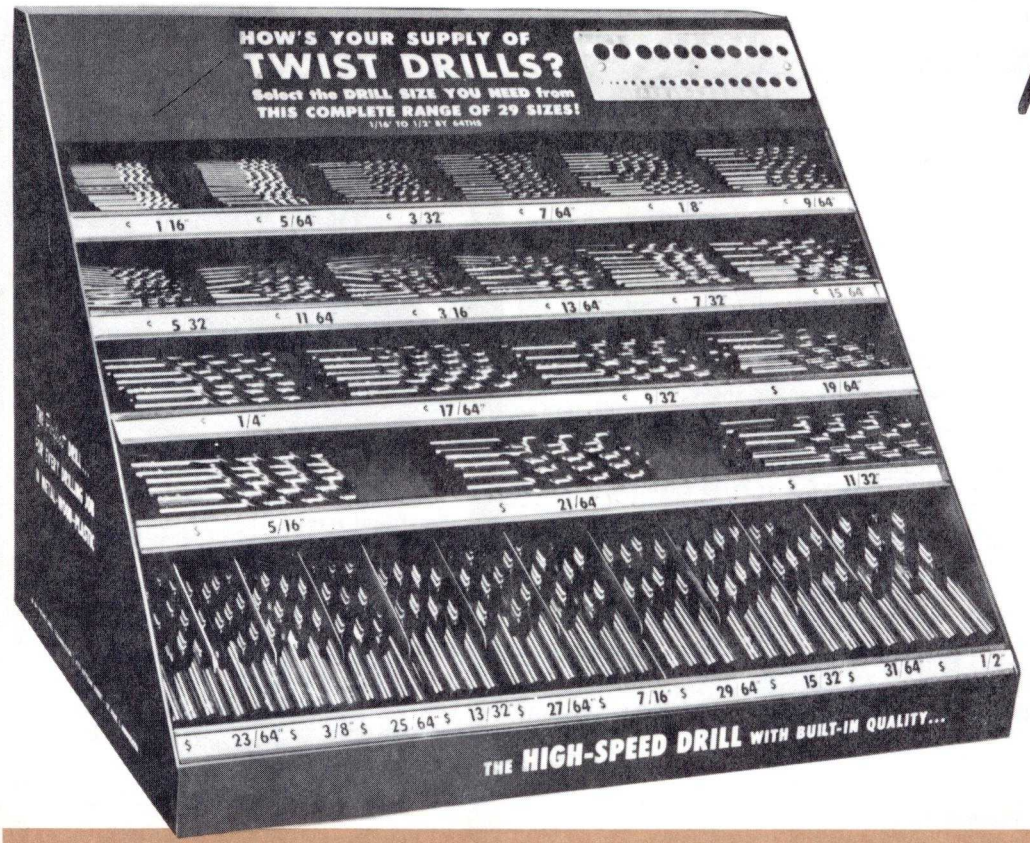

All Steel Display and Stocking Case

TYPE 925

JOBBERS' LENGTH
INDUSTRIAL HIGH
SPEED STEEL DRILL
ASSORTMENT

THEFT—PROOF GLASS LOCKING COVER

ASSORTMENT No. 300

This complete Fractional-size drill display case, stocks 29 drill sizes — 1/16th to 1/2 by 64ths — each size in separate compartment. Compact and completely accessible, drill sizes are easy to stock and inventory without mix-up.

Bold letters plainly mark drill sizes for each compartment. An all-purpose drill-holder that will be appreciated by Customers and Sales Personnel.

Sturdy heavy-gauge steel construction with theft-proof glass locking cover.

COMPLETE DRILL CHARTS
Permanently lithographed on unit are drill charts showing fractional, letter and wire-gauge sizes up to 1/2 inch.

STEEL DRILL-GAUGE INCLUDED
Precision drill-gauge affixed to unit accurately determines exact size of drill.

NOTE: Drill assortment only (without stocking case) . . . . Order Type 926 Assortment No. 300. Price on Application

FRACTIONAL SIZE DRILLS

ASSORTMENT
No. 300
Contains 300
Jobbers Length
High Speed Drills

List Price Each **$430.78**

No. of Drills	Size	No. of Drills	Size
24	1/16	2	19/64
12	5/64	6	5/16
24	3/32	2	21/64
18	7/64	3	11/32
48	1/8	2	23/64
18	9/64	6	3/8
18	5/32	2	25/64
12	11/64	2	13/32
24	3/16	2	27/64
6	13/64	3	7/16
12	7/32	2	29/64
6	15/64	2	15/32
24	1/4	2	31/64
6	17/64	6	1/2
6	9/32		

GUARANTEED INDUSTRIAL QUALITY

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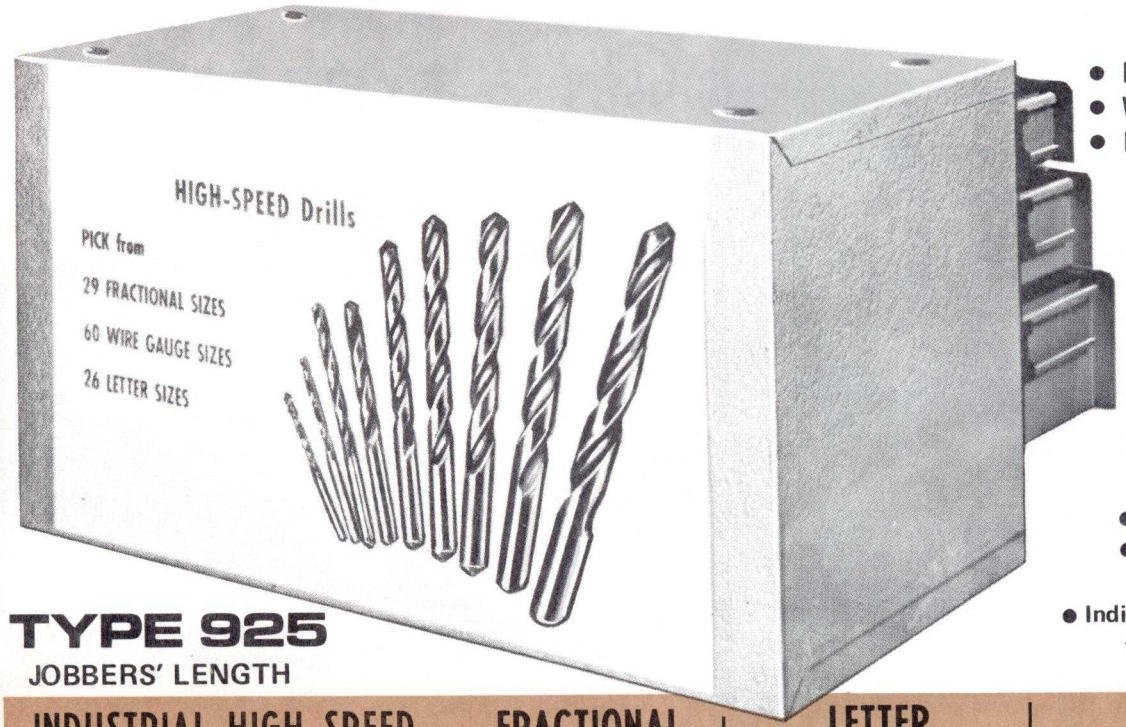
"LOW COST"

Closed Drawer ALL STEEL Stocking Units



for

- Fractional Sizes
- Wire Gauge Sizes
- Letter Sizes

- Saves Space!
- Units stack one on another
- Individual compartments for each drill size

TYPE 925
JOBBERS' LENGTH

INDUSTRIAL HIGH SPEED STEEL DRILL ASSORTMENT

EASY TO MAINTAIN INVENTORY. EASY TO FILL ORDERS . . . FIND SPECIFIC SIZE DRILLS IN SECONDS

An improved *all-purpose* drill dispenser that has proven to be the most practical ever designed.

Precision made of heavy weight steel, entire dispenser is extra sturdy and rigid. Free sliding drawers open and close smoothly. Positive stops keep drawers from spilling. Special designed compartments store ample supply of each size drill.

Fractional Size Drill Assortment Only. 1/16" to 1/2" by 64ths. Quantities as shown. Order Type 926 Assortment No. 96.
Price on Application

Wire Gauge Size Drill Assortment Only. Numbers 1 to 60. Quantities as shown. Order Type 926 Assortment No. 249.
Price on Application

Letter Size Drill Assortment Only. Letters A to Z. Quantities as shown. Order Type 926 Assortment No. 72.
Price on Application

FRACTIONAL SIZE DRILLS

ASSORTMENT
No. 96
Contains 96
Jobbers Length
High Speed Drills

List Price Each **$185.35**

No. of Drills	Size	No. of Drills	Size
6	1/16	1	19/64
3	5/64	3	5/16
6	3/32	2	21/64
3	7/64	3	11/32
6	1/8	2	23/64
3	9/64	2	3/8
6	5/32	2	25/64
6	11/64	2	13/32
6	3/16	2	27/64
3	13/64	2	7/16
6	7/32	2	29/64
3	15/64	2	15/32
6	1/4	1	31/64
2	17/64	2	1/2
3	9/32		

LETTER SIZE DRILLS

ASSORTMENT
No. 72
Contains 72
Jobbers Length
High Speed Drills

List Price Each **$192.69**

No. of Drills	Size	No. of Drills	Size
3	A	3	N
3	B	3	O
3	C	3	P
3	D	3	Q
3	E	3	R
3	F	3	S
3	G	3	T
3	H	2	U
3	I	2	V
3	J	2	W
3	K	2	X
3	L	2	Y
3	M	2	Z

WIRE GAUGE SIZE DRILLS

ASSORTMENT
No. 249
Contains 249
Jobbers Length
High Speed Drills

List Price Each **$205.07**

No. of Drills	Size	No. of Drills	Size	No. of Drills	Size
3	1	3	21	5	41
3	2	3	22	5	42
3	3	4	23	5	43
3	4	4	24	5	44
3	5	4	25	5	45
3	6	4	26	5	46
3	7	4	27	5	47
3	8	4	28	5	48
3	9	4	29	5	49
3	10	5	30	5	50
3	11	5	31	5	51
3	12	5	32	5	52
3	13	5	33	5	53
3	14	5	34	5	54
3	15	5	35	5	55
3	16	5	36	5	56
3	17	5	37	5	57
3	18	5	38	5	58
3	19	5	39	5	59
3	20	5	40	5	60

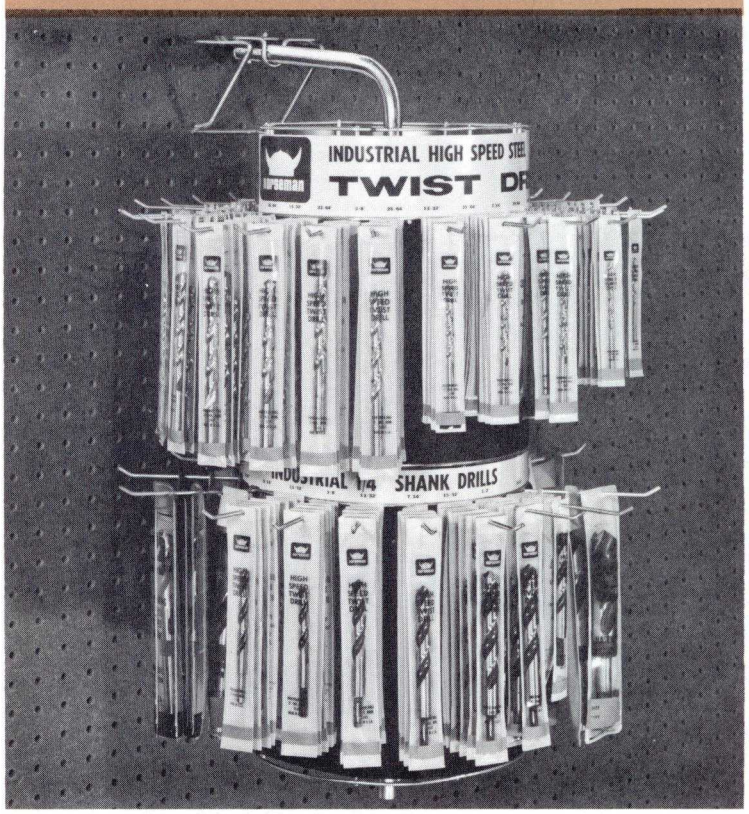
GUARANTEED INDUSTRIAL QUALITY

norseman

ROTATING DRILL DISPLAYS

COMPACT, EYE-CATCHING, SELF-SUPPORTING DISPLAY UNIT FOR INCREASED VOLUME AND HIGHER TURNOVER.

INCREASE SALES DOLLARS
PER SQUARE FOOT OF PEGBOARD



① TYPE 911

INDUSTRIAL HIGH SPEED STEEL DRILLS
RD-16 ASSORTMENT

TYPE 100
JOBBERS' LENGTH

Qty.	Dia.	Qty.	Dia.
12	1/16	3	17/64
12	3/32	3	9/32
12	1/8	3	5/16
12	5/32	3	11/32
12	3/16	3	3/8
12	7/32	3	13/32
12	1/4	3	7/16
6	5/64	3	1/2
6	7/64	1	19/64
6	9/64	1	21/64
6	11/64	1	23/64
6	13/64	1	25/64
6	15/64	1	27/64
		1	29/64
		1	15/32
		1	31/64

TYPE 120
1/4" SHANK

Qty.	Dia.
3	5/16
3	3/8
3	7/16
3	1/2
2	9/32
2	11/32
2	13/32
2	15/32

TYPE 130
1/2" SHANK

Qty.	Dia.
2	9/16
2	5/8
2	11/16
2	3/4
2	13/16
2	7/8
2	15/16
2	1"

RD-16 ASSORTMENT
List Price . . $542.41

Each drill individually packaged in attractive, durable vinyl plastic reuseable sleeve.

Self-supporting Unit mounts on pegboard, 17" wide 25" long. Unit extends 19" out from pegboard.

② TYPE 911

MASONRY DRILLS = DM-23 ASSORTMENT

TYPE 225
REGULAR
SPIRAL

Qty.	Dia.
6	1/8
6	3/16
10	1/4
9	5/16
10	3/8
9	1/2
4	5/8
4	3/4
2	7/8
2	1"

TYPE 215
FAST SPIRAL

Qty.	Dia.
6	3/16
10	1/4
9	5/16
10	3/8
9	1/2

TYPE 112
12" LONG

Qty.	Dia.
4	1/4
4	5/16
4	3/8
2	1/2

DRILL SETS

Qty.	Set No.
2	SD4
2	SD5
2	FD4
2	FD5

DM-23
ASSORTMENT
List
Price . . $520.25

Each Masonry Drill individually packaged in attractive, Perma-Pak plastic reuseable sleeve. Masonry Drill Sets in snap-close plastic pouches.

Self-supporting unit mounts on pegboard, 19" wide 21" long. Unit extends 20" out from pegboard.

③ TYPE 933

WOOD BITS, WOOD BIT SETS, REPLACEMENT BLADES = DW-12 ASSORTMENT

Woodbits (3/8" to 1-1/4" dia.)

Qty.	Dia.
12	3/8
12	1/2
6	9/16
12	5/8
6	11/16
12	3/4
6	13/16
12	7/8
6	15/16
12	1
6	1- 1/8
12	1- 1/4

REPLACEMENT BLADES

Qty.	Dia.
6	3/8
6	1/2
6	9/16
6	5/8
6	11/16
6	3/4
6	13/16
6	7/8
6	15/16
6	1"
6	1-1/8
6	1-1/4

Woodbit Sets

Qty.	Set No.
6	SET A
6	SET B

DW-12 ASSORTMENT
List Price . . $296.34

Each item individually skin packaged.

Self-supporting Unit mounts on pegboard, 17" wide 21" long. Unit extends 19" out from pegboard.

GUARANTEED INDUSTRIAL QUALITY

norseman

TYPE 140 TWIN DRILLS

Industrial high speed steel – 1/2" flute length
135° split point – black surface treatment

for less than the cost of 2 standard drills

1. REDUCE YOUR TOOL COST!
2. REDUCE YOUR DRILL INVENTORY!
3. REDUCE YOUR ON-THE-JOB TOOL REPLACEMENT TIME!

These Twin Drill specifications have wide applications in drilling any thin sheet metal, wood, plastic. . . particularly in automotive body and sheet metal shops.

NOTE: Other sizes – Price on Application.

TYPE 140

Size	Env. Price Each	Length Overall Inches
1/8	$ .81	1-7/8
5/32	.89	2-1/16
3/16	1.42	2-3/16
7/32	1.17	2-3/8
1/4	1.74	2-1/2
#30	.81	1-15/16

Standard Envelope Package Only.
12 drills per envelope

TYPE 160 AND 165 LONGBOYS

12" and 18" Longboys
Industrial high speed steel drills
118° point – surface treated flutes

TYPE 160 – 12" OVERALL LENGTH
FRACTIONAL SIZES

Diameter Inches	Env. Price Each	Length Twist Inches
1/8	$5.57	6
9/64	5.91	6
5/32	5.91	6
11/64	6.39	6
3/16	6.39	9
13/64	6.74	9
7/32	6.74	9
15/64	6.74	9
1/4	6.74	9
17/64	7.36	9
9/32	7.36	9
19/64	7.72	9
5/16	7.72	9
21/64	8.43	9

Diameter Inches	Env. Price Each	Length Twist Inches
11/32	$ 8.43	9
23/64	9.04	9
3/8	9.04	9
25/64	10.11	9
13/32	10.11	9
27/64	10.49	9
7/16	10.49	9
29/64	12.40	9
15/32	12.40	9
31/64	13.10	9
1/2	13.10	9

NOTE: Individual envelope packaged. Perma-Pak . . . add $.35 to above prices.

TYPE 165 – 18" OVERALL LENGTH
FRACTIONAL SIZES

Diameter Inches	Env. Price Each	Length Twist Inches
3/16	$13.46	10
7/32	14.08	10
1/4	14.68	12
9/32	15.85	12
5/16	17.68	12
11/32	18.63	12
3/8	18.87	13-1/2

Diameter Inches	Env. Price Each	Length Twist Inches
13/32	$19.82	13-1/2
7/16	20.42	13-1/2
15/32	21.52	13-1/2
1/2	23.06	13-1/2

NOTE: Individual envelope Packaged

TYPE 166 AND 168 "REECH-'EM" DRILLS

Welded Construction – Straight Shank
6" and 12" Lengths (Extra Length)
118° point

TYPE 166 – 6" OVERALL LENGTH

FRACTIONAL SIZES

Diam Inches	Env. Price Each	Length of Flute Inches
1/8	$1.13	1-5/8
9/64	1.41	1-3/4
5/32	1.41	2
11/64	1.61	2-1/8
3/16	1.61	2-5/16
13/64	1.81	2-7/16
7/32	1.81	2-1/2
15/64	2.02	2-5/8
1/4	2.02	2-3/4

WIRE SIZES

Wire Gauge No.	Env. Price Each	Length of Flute Inches
1	$2.02	2-5/8
10	1.69	2-7/16
11	1.61	2-5/16
20	1.41	2-1/8
21	1.41	2-1/8
29	1.41	1-3/4
30	1.13	1-5/8

NOTE: Individual envelope packaged.
Perma-Pak . . . add $.20 to above prices.

TYPE 168 – 12" OVERALL LENGTH

FRACTIONAL SIZES

Diam Inches	Env. Price Each	Length of Flute Inches
1/8	$3.18	1-5/8
9/64	3.70	1-3/4
5/32	3.70	2
11/64	3.95	2-1/8
3/16	3.95	2-5/16
13/64	4.39	2-7/16
7/32	4.39	2-1/2
15/64	4.73	2-5/8
1/4	4.73	2-3/4
17/64	5.59	2-7/8
9/32	5.98	2-15/16
19/64	6.48	3-1/16
5/16	6.93	3-3/16

Diam Inches	Env. Price Each	Length of Flute Inches
21/64	$ 7.27	3-5/16
11/32	7.63	3-7/16
23/64	7.91	3-1/2
3/8	8.43	3-5/8
25/64	8.84	3-3/4
13/32	9.44	3-7/8
27/64	10.11	3-15/16
7/16	10.52	4-1/16
29/64	11.25	4-3/16
15/32	11.74	4-5/16
31/64	12.13	4-3/8
1/2	12.74	4-1/2

WIRE SIZES

Wire Gauge No.	Env. Price Each	Length of Flute Inches
1	$4.73	2-5/8
10	3.95	2-7/16
11	3.95	2-5/16
20	3.70	2-1/8
21	3.70	2-1/8
29	3.18	1-3/4
30	3.18	1-5/8

NOTE: Individual envelope packaged.
Perma-Pak. . . add $.35 to above prices.

GUARANTEED INDUSTRIAL QUALITY

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CARBIDE TIPPED

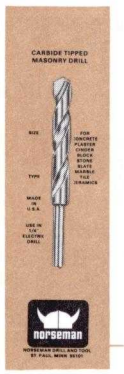
MASONRY DRILLS

MASONRY DRILL SETS

TYPE 225
Regular Spiral

A heavy duty Masonry Drill for stone, concrete, brick, slate, and non-ferrous metals. Drills straight round holes and efficiently removes dust.

SKIN-PAK

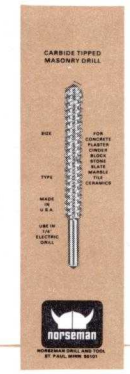


PERMA-PAK

TYPE 215
Fast Spiral

An excellent carbide tipped Masonry Drill for concrete, slate, brick, plastic, wall board, etc. Drills clean deep holes - no stalling or packing.

SKIN-PAK



PERMA-PAK

TYPE 225 AND TYPE 215

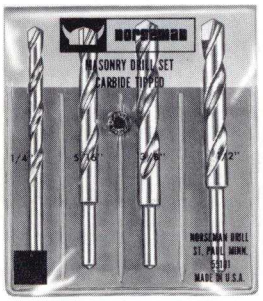
Nominal Diameter Inches	Env. Price Each	Diameter of Shank Inches	Length Overall Inches	Perma-Pak Price Each	Skin-Pak Price Each
1/8"	$1.97	1/8	3 inch	$2.03	$2.03
3/16	1.97	3/16	3 inch	2.03	2.03
3/16	2.02	3/16	4 inch	2.08	2.08
3/16	2.21	3/16	6 inch	2.27	2.27
1/4	1.97	1/4	4 inch	2.03	2.03
1/4	2.21	1/4	6 inch	2.27	2.27
5/16	2.18	1/4	4 inch	2.26	2.26
5/16	2.44	1/4	6 inch	2.52	2.52
3/8	2.48	1/4	4 inch	2.56	2.56
3/8	2.61	1/4	6 inch	2.69	2.69
7/16	2.75	1/4	4 inch	2.85	2.85
7/16	2.75	1/4	6 inch	2.85	2.85
1/2	3.04	1/4	4 inch	3.14	3.14
1/2	3.04	3/8	6 inch	3.14	3.14
9/16	4.01	1/2	6 inch	4.13	4.13
5/8	4.24	1/2	6 inch	4.36	4.36
11/16	4.77	1/2	6 inch	4.89	4.89
3/4	5.16	1/2	6 inch	5.30	5.30
7/8	6.67	1/2	6 inch	6.81	6.81
1	8.19	1/2	6 inch	8.33	8.33

NOTE: When ordering, specify Diameter, Type No., Overall Length & Type of Package.

Standard Envelope Package:
1/8 to 5/16 - 12/envelope
3/8 to 1/2 - 6/envelope
over 1/2 - 1/envelope

4 and 5 PIECE MASONRY DRILL SETS

TYPE 225
Regular Spiral



Four piece popular size drill set in reuseable heavy-weight plastic pouch.
Size: 1/4"-5/16"-3/8"-& 1/2"
Set No. SD-4 ..... $10.13

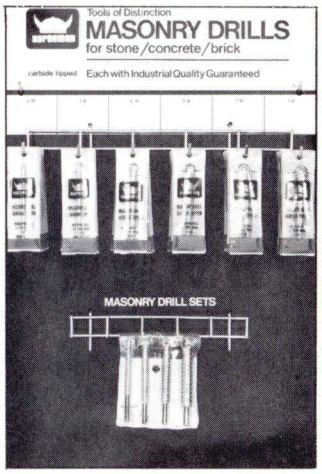
Five Piece set
Size: 3/16"-1/4"-5/16"-3/8" & 1/2"
Set. No. SD-5 ..... $12.17

TYPE 215
Fast Spiral

Four piece popular size drill set in reuseable heavy-weight plastic pouch.
Size: 1/4"-5/16"-3/8"-1/2"
Set No. FD-4 .... $10.13

Five piece set.
Size: 3/16"-1/4"-5/16"-3/8" & 1/2"
Set No. FD-5 .... $12.17

TYPE 912



MASONRY DRILL MERCHANDISER

Colorful Masonite Display Boards promote and sell Masonry Drills and Sets. All items packaged individually in reuseable Perma-Pak plastic sleeve and sets in 4 pocket plastic pouch.

Three each of 6 popular sized, fast selling masonry drills – 3/16, 1/4, 5/16, 3/8, 7/16 and 1/2, plus three each of 4 piece masonry drill sets in plastic pouches. These drill assortments contain 18 drills and 3 sets, including display merchandiser.
ASSORTMENT DM4R–furnished with Type 225 regular spiral masonry drills.
ASSORTMENT DM4F–furnished with Type 215 fast spiral masonry drills.
List Price $81.71
NOTE: When ordering – specify Assortment No.

GUARANTEED INDUSTRIAL QUALITY

norseman

CARBIDE TIPPED MASONRY DRILLS - EXTRA LONG DRILLS HOLLOW KOR DRILLS

TYPE 112 -12" LONG

Diameter Inches	Env. Price Each	Diameter of Shank Inches
1/4	$ 5.77	1/4
5/16	6.12	1/4
3/8	7.28	1/4
7/16	7.92	1/4
1/2	8.27	3/8
9/16	9.38	3/8
5/8	9.73	1/2
3/4	11.53	1/2
7/8	12.58	1/2
1	14.33	1/2

Individual envelope or Perma-Pak Packaged. When ordering, state Diameter, Type No., and Type of Package. Add $.35 for Perma-Pak.

TYPE 118 -18" LONG

Diameter Inches	Env. Price Each	Diameter of Shank Inches
1/4	$ 6.64	1/4
5/16	7.40	1/4
3/8	8.10	1/4
7/16	8.59	1/4
1/2	9.20	3/8
9/16	10.07	1/2
5/8	10.60	1/2
3/4	12.40	1/2
7/8	13.86	1/2
1	16.02	1/2

Individual envelope package only. When ordering, state Diameter, Type No.

CARBIDE TIPPED TYPE 235 HOLLOW KOR MASONRY DRILLS

Diameter Inches	Price Each	Overall Length Inches	Shank Diameter Inches
1/4	$ 6.73	5	1/4 Rd.
5/16	7.95	5	1/4
3/8	9.33	5	1/4
7/16	10.87	5	1/4
1/2	14.15	6	3/8
9/16	14.26	6	3/8
5/8	16.43	8	3/8 HEX
11/16	17.98	8	3/8
3/4	19.40	8	1/2
13/16	23.06	10	1/2
7/8	25.65	10	1/2
1	28.73	10	1/2
1- 1/8	32.65	12	1/2
1- 1/4	36.31	12	1/2 HEX
1- 3/8	40.08	12	1/2
1- 1/2	43.99	12	1/2
1- 5/8	47.49	12	1/2
1- 3/4	52.85	12	1/2
1- 7/8	54.59	12	1/2
2	65.99	15	3/4

LONG LENGTH SHANK

for Type 235 Hollow Kor Masonry Drills

Shanks Diameter	Length	Price
KR-3/8"	12"	$ 2.92
	18"	4.24
	24"	5.83
	30"	7.08
	36"	8.53
KR-1/2"	12"	2.92
	18"	4.24
	24"	5.83
	30"	7.08
	36"	8.53
KR-3/4"	12"	4.24
	18"	5.83
	24"	7.08
	30"	8.56
	36"	10.07

Recommendations for Drilling

For 1/4 to 9/16" use 1/2" electric drill, 400-750 RPM, 20 to 200 pounds pressure. For 1/2 to 13/16" use 1/2" electric drill, 200-500 RPM, 150 to 500 pound pressure. For 7/8" to 1-7/8" use 1/2" heavy duty electric drill, 200-500 RPM, 250-700 pounds pressure. For 2" and larger use 3/4" electric drill, 250-400 RPM, 600 pounds pressure.

STARTING DRILL

for Type 235 Hollow Kor Masonry Drills

Use with Kor Drills up to	Number	Price
1"	KR-1	$1.59
2"	KR-2	3.02

GUARANTEED INDUSTRIAL QUALITY

norseman

Wood Bits

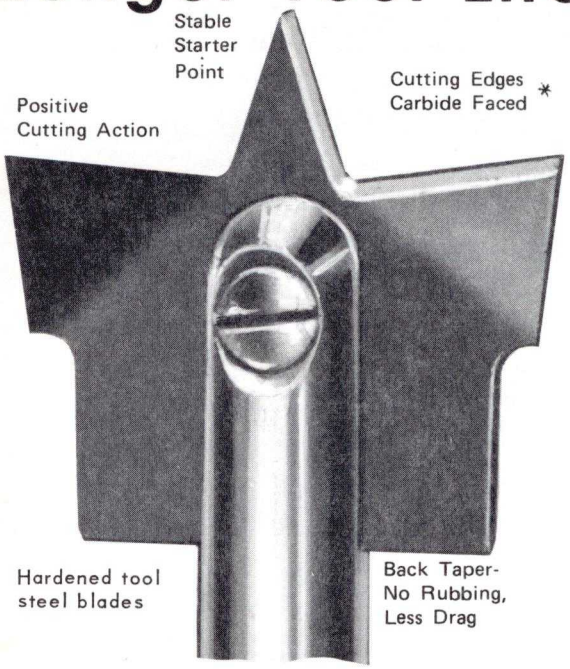
Longer Tool Life

More Economical

Stable Starter Point

Positive Cutting Action

Cutting Edges Carbide Faced *



Hardened tool steel blades

Back Taper- No Rubbing, Less Drag

INTERCHANGEABLE BLADES . . .
2 SHANKS ACCOMMODATE 12 INDIVIDUAL BLADES – 3/8" THRU 1-1/4" DIAMETER.

RAZOR SHARP, FASTER CUTTING, TOOL STEEL EDGES . . . *CARBIDE FACED.

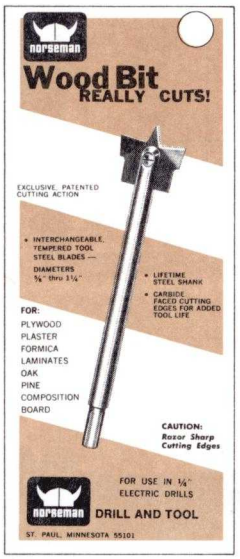
For use in 1/4" Electric Drills

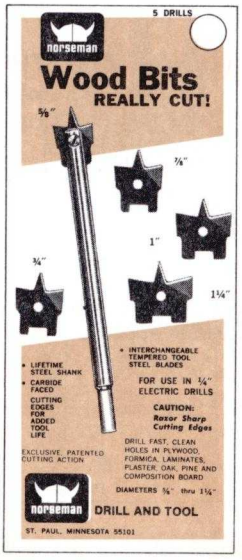
Faster Cutting "Curled" Chips

Cutting action requires less torque, – less strain on electric drills.

*"Carbide Facing" is the welding of Tungsten Carbide along the cutting edges.

*"Carbide Facing" backed by hardened tool steel . . . produces the most durable cutting edge obtainable.





INDIVIDUAL BITS

Diameter	TYPE 930 Shank & Blade Retail Price	TYPE 931 Blades Only Retail Price
3/8"	$1.15	$ .55
1/2"	1.15	.55
9/16"	1.15	.66
5/8"	1.29	.66
11/16"	1.29	.72
3/4"	1.29	.72
13/16"	1.29	.77
7/8"	1.29	.77
15/16"	1.29	.83
1"	1.29	.83
1-1/8"	1.97	.95
1-1/4"	1.97	.95

TYPE 932 SET A

Carbide faced wood bits 5/8" diameter on 1/4" shank plus interchangeable 3/4, 7/8, and 1" carbide faced blades.

4 Drills for $4.50

TYPE 932 SET B

Carbide faced wood bits 5/8" diameter on 1/4" shank plus interchangeable 3/4", 7/8, 1" and 1-1/4" carbide faced blades.

5 Drills for $6.00

All items attractively skin packaged and hole punched for pegboard hooks.

Shank extensions available.
Price on application.

GUARANTEED INDUSTRIAL QUALITY

norseman

ROTARY PLANER DISCS · 7 DIAMETERS NEW! 1-1/4" thru 2-9/16" SAFE!!!

DRILL LARGE DIAMETER HOLES IN WOOD, PLASTER, COMPOSITION BOARD, PLASTIC, FORMICA LAMINATES AND FIBERGLASS.

SMOOTH HOLES · no chipping of material on entry or break thru.

Indestructable solid aluminum cast body . . . One time tool investment . . . quickly change inexpensive, replaceable blades with a screw driver

IMPORTANT!! Built in safety factor eliminates "kick-back" which could be injurious to operator and electric drill.

Inexpensive periphery spur blade breaks when nail is encountered . . . neutralizes planer disk. Remove nail. Replace spur blade and continue drilling.

Carbide faced planer blade never needs sharpening. Replace in seconds.

Self feed pilot

Spur Blade "Break the Spur and not your arm." Replace in seconds.

UNIQUE, ATTRACTIVE PACKAGING. ONE SIZE BOX FOR ALL DIAMETERS...CONTAINS COMPLETE PLANER DISC. HOLE PUNCHED FOR PEGBOARD HANGING, SHELF OR COUNTER DISPLAY.

LIST PRICES

TYPES	936	937	938
Diameters	Complete Bit includes blades and driver	Replacement kit-includes spur blade, planer blade, pilot and screws	Planer Blade
1-1/4	$ 7.05	$ 2.95	$ .85
1-1/2	8.20	3.00	.90
1-3/4	10.85	3.05	.95
1-7/8	11.75	3.10	1.00
2	12.10	3.15	1.05
2-1/8	12.30	3.20	1.10
2-9/16	16.45	3.25	1.15

ACCESSORIES

WC1 Coupling (1/8")
Type 941 . . . . . $ .70 ea.
WC2 Heavy Duty Coupling (1/4")
Type 941 . . . . . $1.45 ea.
WO3 Screw Pilot
Type 942 . . . . . $1.15 ea.
W2D-1/4" Driver 1/8" I.P. Thread
Type 943 . . . . . $1.75 ea.
W2H-1/2" Heavy Duty Driver 1/4" I.P. Thread
Type 943 . . . . . $1.95 ea.
WO2 Spur Blade
Type 944 . . . . . $ .95 ea.

EXTENSIONS

W6A-6" Ext. 3/8" Dia. - 1/8 I.P. Thread
Type 940 . . . . . $3.15 ea.
W6B-6" Ext. 1/2" Dia. - 1/4 I.P. Thread
Type 940 . . . . . $3.55 ea.
W18A-18" Ext. 3/8" Dia. - 1/8 I.P. Thread
Type 940 . . . . . $5.40 ea.
W18B-18" Ext. 1/2" Dia. - 1/4 I.P. Thread
Type 940 . . . . . $5.90 ea.

PLANER AND WOOD BIT SETS

PACKED IN STURDY METAL TOOL BOX

TYPE 939 TRADESMAN DRILL SET "A"

Planer Disk Dia.	Replacement Kits	Accessories
2-9/16	2-9/16	6" heavy duty ext. (W6B)
2-1/8	2-1/8	6" Extension (W6A)
2	2	1/4" Driver (W2D)
1-7/8	1-7/8	1/2" Driver (W2H) heavy duty
1-3/4	1-3/4	2 Couplings (WC1)
1-1/2	1-1/2	2 heavy duty Couplings (WC2)
1-1/4	1-1/4	6 Spur Blades
		2 Screw Pilots

12 COMPLETE WOOD BITS 3/8" thru 1-1/4" diameter.

List Price $145.00

TYPE 939 UTILITY SET "B"

Planer Disk Dia.	Replacement Kits	5 Wood Bits Shank & Blade	Accessories
2-9/16	2-9/16	5/8	1/2" heavy duty Driver(W2H)
2-1/8	2-1/8	3/4	1/4" Driver (W2D)
1-3/4	1-3/4	7/8	6" heavy duty Extension
1-1/2	1-1/2	1	(W6B)
1-1/4	1-1/4	1-1/4	6" regular Extension (W6A)
			1 Heavy duty Coupler (WC2)
			1 Regular Coupler (WC1)

List Price $100.00

GUARANTEED INDUSTRIAL QUALITY

norseman

HI-CARBON STEEL TAPS

NORSEMAN hand taps are manufactured from super durable high carbon tool steels to industry specifications. Totally modern heat treat and tempering process insures long life and accurate cut threads and precision ground bodies.

Standard Envelope Package: All number sizes, 3/16" and 1/4" – 12 per envelope – sizes 5/16" thru 1/2" – 6 per envelope – sizes 9/16 thru 1" – 1 per envelope.

Individual Perma-Pak or individual Skin-Pak, (attractive and ideal for counter displays, island trays and pegboard hooks) are available.

Add $.08 to prices shown for all Number sizes –
Add $.15 to prices shown for sizes 3/16 thru 1/2" dia. –
Add $.35 to prices shown for sizes over 1/2" dia.

FRACTIONAL SIZE TAPS

TYPE 720 PLUG STYLE

STOCK NUMBER	SIZE	ENV. PRICE EACH
720	3/16 x 24NS	$ .95
720	3/16 x 32NS	.95
720	1/4 x 20NC	1.00
720	1/4 x 28NF	1.00
720	5/16 x 18NC	1.15
720	5/16 x 24NF	1.15
720	3/8 x 16NC	1.35
720	3/8 x 24NF	1.35
720	7/16 x 14NC	1.62
720	7/16 x 20NF	1.62
720	1/2 x 13NC	1.85
720	1/2 x 20NF	1.85
720	9/16 x 12NC	2.50
720	9/16 x 18NF	2.50
720	5/8 x 11NC	3.17
720	3/4 x 10NC	4.28
720	7/8 x 9NC	5.30
720	7/8 x 14NF	5.30
720	1 x 8NC	6.24
720	1 x 12NF	6.24
720	1 x 14NS	6.24

TYPE 740 TAPER STYLE

STOCK NUMBER	SIZE	ENV. PRICE EACH
740	3/16 x 24NS	$ .95
740	3/16 x 32NS	.95
740	1/4 x 20NC	1.00
740	1/4 x 28NF	1.00
740	5/16 x 18NC	1.15
740	5/16 x 24NF	1.15
740	3/8 x 16NC	1.35
740	3/8 x 24NF	1.35
740	7/16 x 14NC	1.62
740	7/16 x 20NF	1.62
740	1/2 x 13NC	1.85
740	1/2 x 20NF	1.85
740	9/16 x 12NC	2.50
740	9/16 x 18NF	2.50
740	5/8 x 11NC	3.17
740	3/4 x 10NC	4.28
740	7/8 x 9NC	5.30
740	7/8 x 14NF	5.30
740	1 x 8NC	6.24
740	1 x 12NF	6.24
740	1 x 14NS	6.24

TYPE 760 BOTTOMING STYLE

STOCK NUMBER	SIZE	ENV. PRICE EACH
760	3/16 x 24NS	$ .95
760	3/16 x 32NS	.95
760	1/4 x 20NC	1.00
760	1/4 x 28NF	1.00
760	5/16 x 18NC	1.15
760	5/16 x 24NF	1.15
760	3/8 x 16NC	1.35
760	3/8 x 24NF	1.35
760	7/16 x 14NC	1.62
760	7/16 x 20NF	1.62
760	1/2 x 13NC	1.85
760	1/2 x 20NF	1.85
760	9/16 x 12NC	2.50
760	9/16 x 18NF	2.50
760	5/8 x 11NC	3.17
760	3/4 x 10NC	4.28
760	7/8 x 9NC	5.30
760	7/8 x 14NF	5.30
760	1 x 8NC	6.24
760	1 x 12NF	6.24
760	1 x 14NS	6.24

GUARANTEED INDUSTRIAL QUALITY

MACHINE SCREW TAP SIZES

TYPE 721
PLUG STYLE

STOCK NUMBER	SIZE	ENV. PRICE EACH
721	4 x 36NS	$ .78
721	4 x 40NC	.78
721	5 x 40NC	.78
721	6 x 32NC	.78
721	6 x 40NF	.78
721	6 x 48NS	.78
721	8 x 32NC	.83
721	8 x 36NF	.83
721	8 x 40NS	.83
721	10 x 24NC	.95
721	10 x 32NF	.95
721	12 x 24NC	.95
721	12 x 28NF	.95
721	14 x 20NS	1.05

TYPE 741
TAPER STYLE

STOCK NUMBER	SIZE	ENV. PRICE EACH
741	4 x 36NS	$ .78
741	4 x 40NC	.78
741	5 x 40NC	.78
741	6 x 32NC	.78
741	6 x 40NF	.78
741	6 x 48NS	.78
741	8 x 32NC	.83
741	8 x 36NF	.83
741	8 x 40NS	.83
741	10 x 24NC	.95
741	10 x 32NF	.95
741	12 x 24NC	.95
741	12 x 28NF	.95
741	14 x 20NS	1.05

TYPE 761
BOTTOMING STYLE

STOCK NUMBER	SIZE	ENV. PRICE EACH
761	4 x36NS	$ .78
761	4 x 40NC	.78
761	5 x 40NC	.78
761	6 x 32NC	.78
761	6 x 40NF	.78
761	6 x 48NS	.78
761	8 x 32NC	.83
761	8 x 36NF	.83
761	8 x 40NS	.83
761	10 x 24NC	.95
761	10 x 32NF	.95
761	12 x 24NC	.95
761	12 x 28NF	.95
761	14 x 20NS	1.05

TAP SETS

FRACTIONAL SIZE

TYPE 722

STOCK NUMBER	SIZE	PRICE PER SET
722	3/16 x 24NS	$ 3.02
722	3/16 x 32NS	3.02
722	1/4 x 20NC	3.32
722	1/4 x 28NF	3.32
722	5/16 x 18NC	3.60
722	5/16 x 24NF	3.60
722	3/8 x 16NC	4.57
722	3/8 x 24NF	4.57
722	7/16 x 14NC	5.35
722	7/16 x 20NF	5.35
722	1/2 x 13NC	6.07
722	1/2 x 20NF	6.07
722	9/16 x 12NC	8.02
722	9/16 x 18NF	8.02
722	5/8 x 11NC	10.05
722	3/4 x 10NC	13.40
722	7/8 x 9NC	16.45
722	7/8 x 14NF	16.45
722	1 x 8NC	19.37
722	1 x 12NF	19.37
722	1 x 14NS	19.37

MACHINE SCREW SIZES

TYPE 723

STOCK NUMBER	SIZE	PRICE PER SET
723	4 x 36NS	$2.52
723	4 x 40NC	2.52
723	5 x 40NC	2.52
723	6 x 32NC	2.52
723	6 x 40NF	2.52
723	6 x 48NS	2.52
723	8 x 32NC	2.67
723	8 x 36NF	2.67
723	8 x 40NS	2.67
723	10 x 24NC	3.02
723	10 x 32NF	3.02
723	12 x 24NC	3.02
723	12 x 28NF	3.02
723	14 x 20NS	3.32

3 Piece TAP SETS
Contains one plug, one taper and one bottoming tap..... all one size. Packed in protective and reuseable see-thru Perma Pak pouch.

SPARK PLUG TAPS

TYPE 780

STOCK NUMBER	SIZE	LIST PRICE EACH
780	10 x 1.00MM	$1.47
780	14 x 1.25 MM	2.71
780	18 x 1.50MM	4.17

Norseman Taps and Dies are manufactured to American Industrial Specifications and are imported.

GUARANTEED INDUSTRIAL QUALITY

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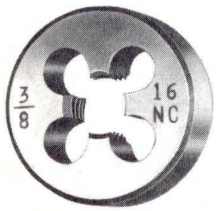
HI-CARBON STEEL DIES TAPER PIPE TAPS SCREW and PIPE EXTRACTORS

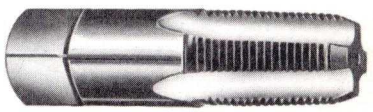
TYPE 400 Hi-Carbon Steel 1" SOLID ROUND DIES



Heat treated, tempered and precision cut thread dies for exact re-threading and longer tool life

Size and Threads/Inch		Env. Price Each
4 x 36	NS	$1.17
4 x 40	NC	1.17
5 x 40	NC	1.17
6 x 32	NC	1.17
8 x 32	NC	1.17
10 x 24	NC	1.17
10 x 32	NF	1.17
12 x 24	NC	1.17
14 x 20	NS	1.17
3/16 x 24	NS	1.17
3/16 x 32	NS	1.17
1/4 x 20	NC	1.17
1/4 x 28	NF	1.17
5/16 x 18	NC	1.17
3/8 x 16	NC	1.17
3/8 x 24	NF	1.17
7/16 x 14	NC	1.17
1/2 x 13	NC	1.17
1/2 x 20	NF	1.17
1/2 x 24	NS	1.17
1/8 x 27	NPT	1.17
1/4 x 18	NPT	1.17

TYPE 450 Taper Pipe Taps



HI-CARBON STEEL TAPER-PIPE TAPS

Tapered thread to insure a tight fit on pipe threads

Size	Per Inch Npt	No. Flutes	Price Each
1/8	27	4	$ 1.55
1/4	18	4	2.27
3/8	18	4	2.67
1/2	14	4	4.23
3/4	14	5	6.32
1	11½	5	8.82
1-1/4	11½	5	13.68
1-1/2	11½	7	18.57
2"	11½	7	28.12

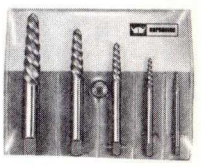
TYPE 480 Hi-Carbon Steel Screw and Pipe Extractors

Remove broken screws, bolts threaded parts and pipe. Drill a hole in broken part, insert extractor and turn to the left. Broken piece is extracted without damage to threads.

Size	Removes Screws	Env. Price Each
EX 1	3/32 - 5/32	$ .64
EX 2	5/32 - 7/32	.71
EX 3	7/32 - 9/32	.76
EX 4	9/32 - 3/8 & 1/8" Pipe	.87
EX 5	3/8 - 5/8 & 1/4" Pipe	1.06

TYPE 480 screw & pipe extractor sets

Packaged in attractive reuseable pouch.



Set No.	Contains Sizes	Price Each
SE 4	2-3-4-5	$3.74
SE 5	1-2-3-4-5	4.68

GUARANTEED INDUSTRIAL QUALITY

DISCONTINUED

INVENTORY TO BE SOLD AT SUBSTANTIAL SAVINGS (NORMAL TRADE DISCOUNTS APPLIED TO LIST PRICES 30% TO 50% UNDER THOSE GIVEN BELOW – CHECK ST. PAUL). ALL TRANSACTIONS SUBJECT TO PRIOR SALE – SO GET YOURS WHILE THEY LAST!

ABRASIVE CUT-OFF WHEELS

TYPE 960

Cut-Off Wheels for Masonry and Non-Metallic Materials. Fiberglass Reinforced-Silicon Carbide Abrasive Grain-Resin Bond.

These Heavy Duty, Silicon Carbide Grain Masonry Cut-Off Blades have Fiber Glass Reinforcement on both sides and will not shatter under normal use. Blades comply with American Standard Association Safety Code No. B7-1. Universal Arbor, Diamond, and 1/2" & 5/8" round holes permit use of sizes up to 8" diameter on most portable electric saws. Best blade for concrete, brick, plastic, rubber, clay tile, etc.

Diameter	Thickness	Arbor	List Price
6"	1/8	UNIV.	$6.10
6-1/2"	1/8	UNIV.	6.86
7"	1/8	UNIV.	6.86
8"	1/8	UNIV.	7.90

TYPE 961

Cut-Off Wheels for Ferrous Metals. Fiberglass Reinforced-Aluminum Oxide Grain-Resin Bond.

CAUTION
Tighten flange holding blade
Flange must be large enough
To grip abrasive side or metal insert,
NOT FIBRE WASHER
Never stand in line with blade
Retighten after 4 or 5 minutes of use

These aluminum oxide grain wheels are our best general purpose wheels for use in hand-operated equipment and will produce a finished surface requiring no further grinding. Use on all ferrous (iron) metals and hard nonferrous metals. For cutting drill rod, steel, wrought iron, channel iron. wire braided rubber hose, steel pipe, and iron pipe.

Diameter	Thickness	Arbor	List Price
6"	1/8	UNIV.	$6.10
6-1/2"	1/8	UNIV.	6.86
7"	1/8	UNIV.	6.86
8"	1/8	UNIV.	7.90

DEPRESSED CENTER GRINDING WHEELS

TYPE 962

Depressed Center Grinding Wheels for Masonry and Non-Metallic Materials. Triple Fiberglass Reinforced-Silicon Carbide Abrasive Grain-Resin Bond.

A balanced, lightweight, fully-tested reinforced grinding wheel for non-metallic grinding which can be used for general purpose work, takes the place of 5" & 6" cup wheels on many applications. For use on concrete, masonry, brick, cinder block, plastic, ceramics, rubber, cast iron, transite, and plaster board.

Diameter	Thickness	Arbor	List Price
7"	1/4	7/8	$10.57
9"	1/4	7/8	14.05
7"	1/4	5/8-11	13.19
9"	1/4	5/8-11	16.67

TYPE 963

Depressed Center Grinding Wheels for Ferrous Metals. Triple Fiberglass Reinforced-Silicon Carbide Abrasive Grain-Resin Bond.

This grinding wheel is reinforced with three heavy woven fiber glass reinforcing discs and has a steel center bushing. Its free cutting action makes it highly suitable for use in high speed portable angle grinders for burr removal, V-cutting, removal of flame-cut edges on heavy work, notching and beveling before welding and for the smoothing and blending of finished welds.

Diameter	Thickness	Arbor	List Price
7"	1/4	7/8	$10.57
9"	1/4	7/8	14.05
7"	1/4	5/8-11	13.19
9"	1/4	5/8-11	16.67

DISCONTINUED

GUARANTEED INDUSTRIAL QUALITY

CAUTION

ANY CUTTING TOOL MAY BREAK OR SHATTER UNDER IMPROPER USE. GOVERNMENT REGULATIONS REQUIRE USE OF SAFETY GLASSES AND OTHER APPROPRIATE SAFETY EQUIPMENT AT ALL TIMES IN THE VICINITY OF USE.

®

norseman

A DIVISION OF RADIAL LIP MACHINE, INC.

serving the hardware, professional craftsman, automotive and related markets

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